



DAKAP

Rectangular conductor of copper, wrapped with Kapton[®] foil, class 240

Product name:

Dakap

Properties:

- Very good thermal resistance
- Excellent resistance to humidity

Specifications:

Internal LWW or customer specification

Field of application:

- Traction motors
- Electric machines

UL approval:

Not approved

Standard packaging:

Drum 500 and 630

Class: 240

Temperature index $\geq 240^{\circ}\text{C}$

Heat shock: $\geq 260^{\circ}\text{C}$

Shelf life:

5 years, under normal ambient conditions

Conductor material:

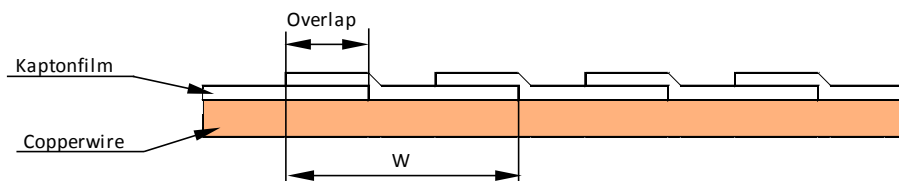
Cu according to EN 1977/ASTM B49

Conductor tolerances

Nominal width or thickness of the conductor (mm)		Tolerance +/- (mm)
Over	Up to and including	
-	3,15	0,030
3,15	6,30	0,050
6,30	12,50	0,070
12,50	-	0,100

Conductor corner radius

Nominal thickness of conductor (mm)		Corner radius (mm)	Tolerance
Over	Up to and including		
-	1,00	0,5 nominal thickness	+/- 25%
1,00	1,60	0,50	+/- 25%
1,60	2,24	0,65	+/- 25%
2,24	3,55	0,80	+/- 25%
3,55	-	1,00	+/- 25%



Standard insulation:

Designation	Kapton	Kapton	Overlap	Width ²⁾	Increase (doublesided)
Dakap 7010	200FN919	-	50%	7,9 - 11,1 - 15,9	0,20 ± 0,03
Dakap 7011	150FN019	-	50%	7,9 - 11,1 - 15,9	0,15 ± 0,03
Dakap 7020 ¹⁾	200FN919	200FN919	50%	7,9 - 11,1 - 15,9	0,40 ± 0,03
Dakap 7021 ¹⁾	200FN919	150FN019	50%	7,9 - 11,1 - 15,9	0,35 ± 0,03
Dakap 7030	200FN919	-	67%	7,9 - 11,1 - 15,9	0,30 ± 0,03
Dakap 7031	150FN019	-	67%	7,9 - 11,1 - 15,9	0,23 ± 0,03
Dakap 7053	150FN019	-	53%	7,9 - 11,1 - 15,9	0,23 ± 0,03

1. Produced with two crosswinded kaptonfilms, were each film is overlapping it self 50%

2. Depending on dimension and width/thickness ration

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Properties for DAKAP

Main characteristics	Test method	Interval	Acceptance criteria
Thermal properties			
Heat shock	IEC 60851 - 6.3 ¹⁾	$1,00 \leq T \leq 7,00$	$\geq 260^{\circ}\text{C}$
Temperature index	IEC 60172	-	$\geq 240^{\circ}\text{C}^{2)}$
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	4)	0,01709 $\Omega\text{mm}^2/\text{m}$
Conductivity	1/R	4)	$> 58 \text{ m}/(\Omega\text{mm}^2)$
Breakdown voltage	IEC 60851 - 5.4 ³⁾	All sizes	$> 3,0 \text{ kV}$ (Dakap 7011) $> 5,0 \text{ kV}$ (all other)
Mechanical properties			
Elongation	IEC 60851-3.3	$1,00 \leq T \leq 2,50$	$\geq 30\%$
		$T > 2,50$	$\geq 32\%$
Springback angle	IEC 60851-3.4	All sizes	$\leq 5^{\circ}$
Flexibility	IEC 60851-3.5	$2 \leq W \leq 8 \text{ mm}$	2 x width
		$8 < W \leq 16 \text{ mm}$	4 x width
- Bending edgewise		$W > 16 \text{ mm}$	6 x width
- Bending flatwise		All sizes	2 x thickness
Adherence	IEC 60851-3.5	All sizes	20% stretch, Loss of adhesion max. 1mm
-Cut and stretch			

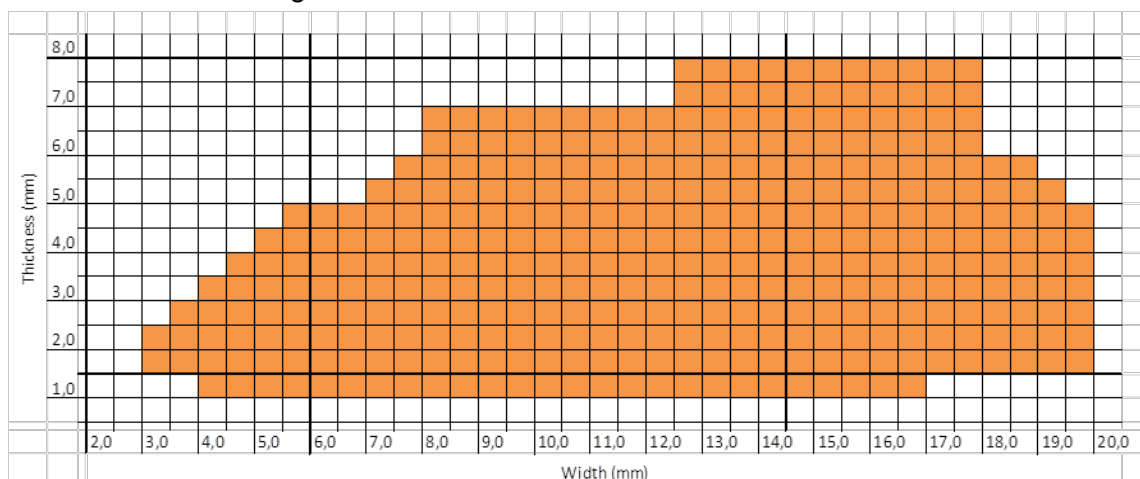
1. Performed on straight piece

2. According to supplier certificate

3. Bent according to flexibility test

4. Dependence of dimension is expressed by the unit

Dimension range



The technical data included is up to date at the time of printing.

LWW reserve the right to make any amendments deemed necessary

Liljedahl Winding Wire

dahréntråd

isodraht

ślaska

利里达尔电磁线
liljedahl winding wire